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AMENDMENTS

SEP 3 0 2005

In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended): A negative photoresist composition with multi-reaction systems, comprising the following components as a uniform solution in an organic solvent:

at least one saturated or unsaturated resin having a molecular weight in the range from 5,000 to 250,000 and an acid value between 50 and 250mgKOH/g, selected from the group consisting of homopolymers, copolymers, and combinations thereof, which the homopolymers and the copolymers are synthesized by at least one monomer selected from the group consisting of styrene, methyl styrene, acrylic acid, acrylate, methyl lacrylic acid, methyl acrylate, vinyl ether, and combinations thereof;

at least one photoinitiator in an amount of 0.1 to 35 parts by weight, based on 100 parts by weight of the saturated or unsaturated resin;

at least one free radical reactive monomer in an amount of 0.1 to 100 parts by weight; at least one photoacid generator in an amount of 0.1 to 35 parts by weight; and at least one cation reactive monomer in an amount of 0.1 to 35 parts by weight.

- 2. (Original): The negative photoresist composition as claimed in claim 1, wherein the multi-reaction systems comprise free-radical polymerizations and cation polymerizations.
 - 3-5. (Canceled).

- 6. (Currently amended): The negative photoresist composition as claimed in claim 1, wherein the saturated or unsaturated resin has a molecular weight in the range from 10,000 to 100,000 and an acid value between 70 and 150mgKOH/g.
- 7. (Currently amended): The negative photoresist composition as claimed in claim 1, wherein the at least one photoinitiator is present in an amount of 0.1-10 parts by weight, based on 100 parts by weight of the saturated or unsaturated resin.
- 8. (Original): The negative photoresist composition as claimed in claim 1, wherein the photoinitiator is selected from the group consisting of benzoin, benzoin alkyl ether, benzil ketals, acetophenones derivatives, benzophenone, 4,4'-dimethyl-amino-benzophenone, thioxanthones derivatives, morpholino-1-propanone, and combinations thereof.
- 9. (Currently amended): The negative photoresist composition as claimed in claim 1, wherein the at least one free radical reactive monomer is present in an amount of 5-25 parts by weight, based on 100 parts by weight of the saturated or unsaturated resin.
- 10. (Original): The negative photoresist composition as claimed in claim 1, wherein the free radical reactive monomer is selected from the group consisting of tetraethylene glycol diacrylate, tetraethylene glycol dimethacrylate, neopentylglycol diacrylate, neopentylglycol dimethyl acrylate, polyethylene glycol diacrylate, polyethylene glycol dimethylacrylate, ethoxylated bisphenol A glycol diacrylate, ethoxylated bisphenol A glycol dimethyl acrylate,

trimethylolpropane trimethacrylate, trimethylolpropane triacrylate, pentaerythritol triacrylate, ethoxylated trimethylolpropane triacrylate, glyceryl propoxy triacrylate, pentaerythritol tetraacrylate, dipentaerythritol pentaacrylate, glycidyl acrylate, glycidylmethyl acrylate, p-epoxystyrene, p-glycidyl-styrene, allyl glycidyl ether, 3-glycidyloxy-propy l-trimethoxy silane, β -(3,4-epoxycyclohexyl)-ethyl trimethoxysilane, γ -glycidoxypropyl trimethoxysilane, and combinations thereof.

- 11. (Currently amended): The negative photoresist composition as claimed in claim 1, wherein the at least one photoacid generator is present in an amount of 0.1-10 parts by weight, based on 100 parts by weight of the saturated or unsaturated resin.
- 12. (Original): The negative photoresist composition as claimed in claim 1, wherein the photoacid generator is selected from the group consisting of onium salt, triarylsulfonium salt, alkylarylsulfonium salt, diaryliodonium salt, diarylchloronium salt, diarylbromonium salts, sulfonates, diazonium salt, diazonaphthoquinone sulfonate, and combinations thereof.
- 13. (Original): The negative photoresist composition as claimed in claim 1, wherein triarylsulfonium salt is selected from the group consisting of triaryl sulfonium hexafluorophosphate, triphenyl triflate, triphenyl stibnite, methoxy triphenyl triflate, methoxy triphenyl stibnite, and trimethyl triphenyl triflate and combinations thereof.

- 14. (Currently amended): The negative photoresist composition as claimed in claim 1, wherein the at least one cation reactive monomer is present in an amount of 5-25 parts by weight, based on 100 parts by weight of the saturated or unsaturated resin.
- 15. (Original): The negative photoresist composition as claimed in claim 1, wherein the cation reactive monomer is selected from the group consisting of vinyl ether monomer, epoxy monomer, and derivatives thereof.
- 16. (Original): The negative photoresist composition as claimed in claim 1, wherein the cation reactive monomer is selected from the group consisting of cycloaliphatic diepoxide, N,N-diglycidyl-4-glycidyloxyaniline, 3,4-epoxycyclohexylmethyl carboxylate, 3,4-epoxycyclohexane carboxylate, 1,2-cyclohexane diglycidyl dicarboxylate, 1,4-cyclohexane dimethanol diglycidyl ether, ethylene glycol divinyl ether, diethylene glycol divenyl ether, triethylene glycol divinyl ether, 1,4-cyclohexane dimethanol divinyl ether, lactones and combinations thereof.
- 17. (Currently amended): The negative photoresist composition as claimed in claim 1, further comprising:
- at least one epoxy resin in an amount of 0.1 to 50 parts by weight, based on 100 parts by weight of the saturated or unsaturated resin; and
 - at least one resin hardener in an amount of 0.1 to 30 parts by weight.
- 18. (Original): The negative photoresist composition as claimed in claim 17, wherein the epoxy resin is selected from the group consisting of bisphenol A epoxy resin, brominated epoxy

resin, phenolic novolac epoxy resin, cresol novolac epoxy resin, naphthalene epoxy, dicyclopendiene novolac epoxy, cycloaliphatic epoxy, isocyanate epoxy and combinations thereof.

19. (Original): The negative photoresist composition as claimed in claim 17, wherein the resin hardener is selected from the group consisting of aliphatic amine, aromatic amine, polyamide, dicyandiamide, imidazoles, anhydride and combinations thereof.

20. - 21. (Canceled)